EXECUTIVE ORDER A-021-0448 New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

				granted.							
MODEL YEAR	ENGINE FAMILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST PROCEDURE	INTENDED SERVICE	ECS & SPECIAL FEATURES 3					
2007	7CEXH0540LAL	8.8	Diesel		CLASS '						
ENGINE (L	-)			Diesei	MHDD	DDI, TC, CAC, ECM, EGR, PTOX, OC					
8.8	-	101	ENGINE MO	ODELS / CODES (rated power, in h						
		ISL 425 / 0424;FR91891 (425), ISL 400 / 0424;FR91852 (380), ISL, 370 / 0424;FR92002 (370)									
				•	(), 104 0	70 7 0424,FR92002 (3/0)					
	<u>. </u>										
=not applica	able, GVWR=gross vehicle	weight rating: 13 CCI	R xyz=Title 13, California Code								
.≃liter; hyp≂h	orsepower; low=kilowatt:		Ayk-Hue 13, California Code	of Regulations, Secti	OF 107 40 CEP 88	shortille to 6 1 75					

*=not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86,abc=Title 40, Code of Federal Regulations, Section 86.abc; L=liter; hp=horsepower; kw=kilowatt; Filter, inp=norsepower; inv=knowar;
CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel;
LMM HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;

FCS=assistation social perform TMC/CC=three-very/dytidizing establish MULterefiel = warm-up catabilish DEE=diesel perforation filter. PTCX=neglicitis from printinger: 1

L/M/H HDD=light/medium/heavy heavy-duty diesei; UB=urban bus; HDU=heavy duty Otto; ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidizer; HO2S/O2S=heated/oxygen sensor; HRS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; SPL=smoke puff limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series (2006DEC22)

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.1 (urban bus) or 13 CCR 1956.8 (other than urban bus); 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.1 or 13 CCR 1956.8 are in parentheses.)

	NMHC NMHC		NOx		NMHC+NOx			20		<u> </u>		
	FTP	FTP EURO		EURO	T	co		PM		нсно		
D	0.5	0.5		1000		EURO	FTP	EURO	FTP	EURO	FTP	EURO
	 			<u> </u>	•	_ •	15.5	15.5	0.01			EURC
?T	 	├─!		*	2.2	2.2				0.01		
	0.00	0.00	•	•	1.6	1.6				<u> </u>		
0.6		.6	-				0.2	0.00	0.001	0.000	•	
g/bhp-hr=grams per brake horsepower-hour, FTP=Federal Test					2.8		19.4 European Steady-State Cycle		0.02			

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Staady-State Cycle; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

day of March 2007.

Annette Hebert, Chief

Mobile Source Operations Division